

U.S. Patent Application Serial No. 10/585,634
Response to Final OA dated June 16, 2008

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): An engine valve operating system, comprising a rocker arm [[(63)]] which has a valve connecting portion [[(63a)]] linked and connected to an engine valve [[(19)]] and a cam-abutting portion [[(65)]] to abut a valve operating cam [[(69)]]; a first link arm [[(61)]] with one end turnably connected to the rocker arm [[(63)]] via a first connecting shaft [[(64)]] and the other end turnably supported at a fixed position on an engine body [[(10)]]; a second link arm [[(62)]] with one end turnably connected to the rocker arm [[(63)]] via a second connecting shaft [[(66)]] disposed side by side in a vertical arrangement with the first connecting shaft [[(64)]] and the other end turnably supported by a movable shaft [[(68a)]] which is displaceable; drive means [[(72)]] connected to the movable shaft [[(68a)]] , being ready to displace the movable shaft [[(68a)]] in order to vary a lift amount of the engine valve [[(19)]] continuously; and oil supply means [[(58)]] which is fixed to the engine body [[(10)]] and supplies oil to the upper one [[(64)]] of the first and second connecting shafts [[(64, 66)]], wherein the oil supply means which is formed of the oil jet with a nozzle hole provided at a tip of the pipe is disposed on one side of each cylinder on the engine body, and the tip of the pipe is placed inside the rim of a combustion chamber when viewed on a projection to a plane orthogonal to the axis of the cylinder.

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Claim 2 (Currently Amended): [[The]] An engine valve operating system according to claim 1, comprising a rocker arm which has a valve connecting portion linked and connected to an engine valve and a cam-abutting portion to abut a valve operating cam; a first link arm with one end turnably connected to the rocker arm via a first connecting shaft and the other end turnably supported at a fixed position on an engine body; a second link arm with one end turnably connected to the rocker arm via a second connecting shaft disposed side by side in a vertical arrangement with the first connecting shaft and the other end turnably supported by a movable shaft which is displaceable; drive means connected to the movable shaft, being ready to displace the movable shaft in order to vary a lift amount of the engine valve continuously; and oil supply means which is fixed to the engine body and supplies oil to the upper one of the first and second connecting shafts.

wherein the rocker arm [[(63)]] is equipped with a support portion [[(63b)]] formed into a substantially U shape so as to sandwich a roller [[(65)]] which is the cam-abutting portion from opposite sides; the one end of the first link arm [[(61)]] is turnably connected to the support portion [[(63b)]] via the first connecting shaft [[(64)]] which supports the roller [[(65)]]; and the oil supply means [[(58)]] is disposed on the engine body [[(10)]] so as to supply oil to a mating surface between the first link arm [[(61)]] and the support portion [[(63b)]].

Claim 3 (Currently Amended): The engine valve operating system according to claim 1, wherein the oil supply means [[(58)]] is disposed on cam holders [[(46)]] installed on the engine body [[(10)]] so as to rotatably support a camshaft [[(31)]] on which the valve operating cam [[(69)]]

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is mounted.

Claim 4 (Cancel)

Claim 5 (Cancel)

Claim 6 (Currently Amended): The engine valve operating system according to claim 2, wherein the oil supply means [[(58)]] is disposed on cam holders [[(46)]] installed on the engine body [[(10)]] so as to rotatably support a camshaft [[(31)]] on which the valve operating cam [[(69)]] is mounted.

Claim 7 (Currently Amended): The engine valve operating system according to claim 2, wherein the oil supply means [[(58)]] which is formed of oil jets [[(58)]]], each with a nozzle hole [[(58b)]]] provided at the tip of a pipe [[(58a)]], is disposed on opposite sides of each cylinder on the engine body [[(10)]]].

Claim 8 (Currently Amended): The engine valve operating system according to claim 3, wherein the oil supply means [[(58)]] which is formed of oil jets [[(58)]]], each with a nozzle hole [[(58b)]]] provided at the tip of a pipe [[(58a)]], is disposed on opposite sides of each cylinder on the engine body [[(10)]]].

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Claim 9 (Currently Amended): The engine valve operating system according to claim 6, wherein the oil supply means [[(58)]] which is formed of oil jets [[(58)]], each with a nozzle hole [[(58b)]] provided at the tip of a pipe [[(58a)]], is disposed on opposite sides of each cylinder on the engine body [[(10)]].

Claim 10 (Currently Amended): The engine valve operating system according to claim 2, wherein the oil supply means [[(58)]] which is formed of the oil jet [[(58)]] with the nozzle hole [[(58b)]] provided at the tip of the pipe [[(58a)]] is disposed on one side of each cylinder on the engine body [[(10)]].

Claim 11 (Cancel)

Claim 12 (Currently Amended): The engine valve operating system according to claim 6, wherein the oil supply means [[(58)]] which is formed of the oil jet [[(58)]] with the nozzle hole [[(58b)]] provided at the tip of the pipe [[(58a)]] is disposed on one side of each cylinder on the engine body [[(10)]].